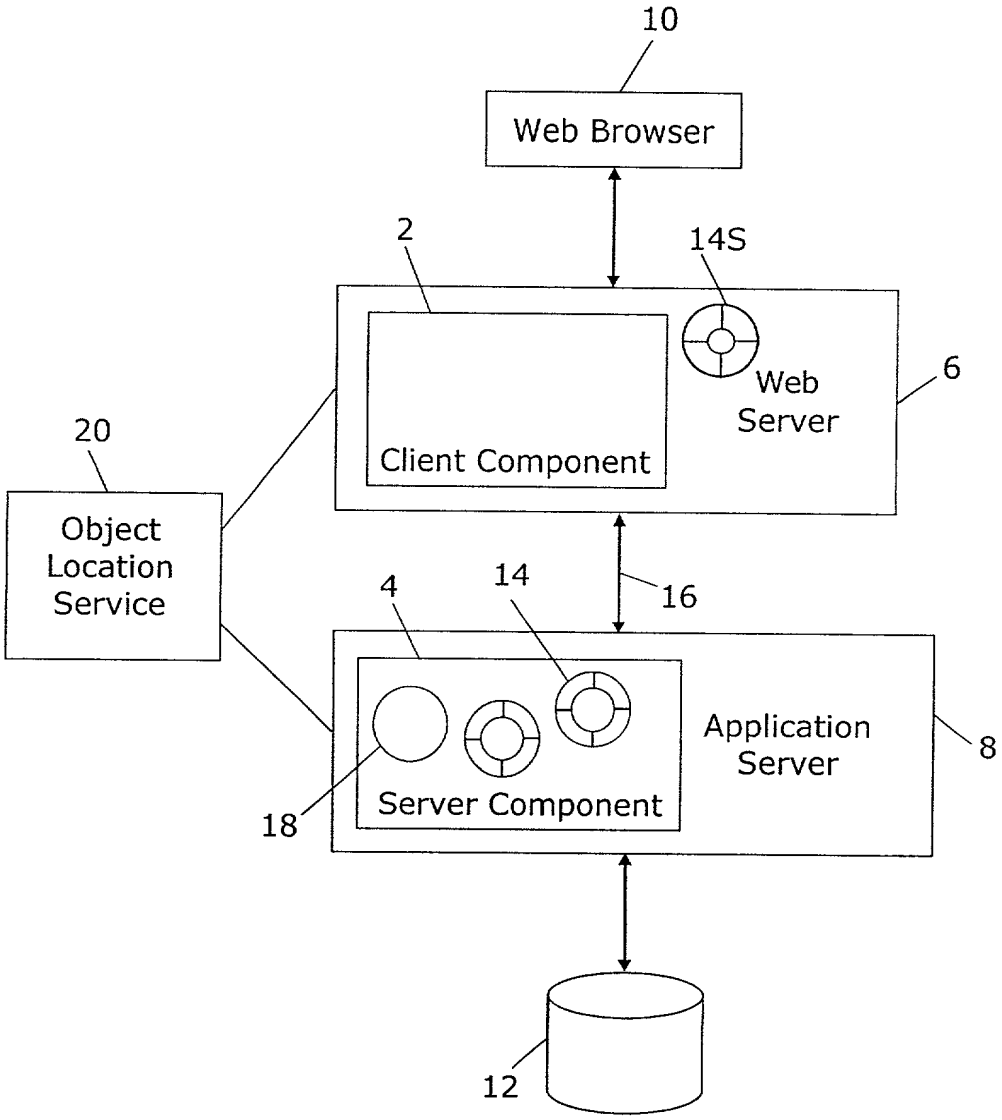
FOREIGN DESIGNATED



(PRIOR ART)
FIGURE 1

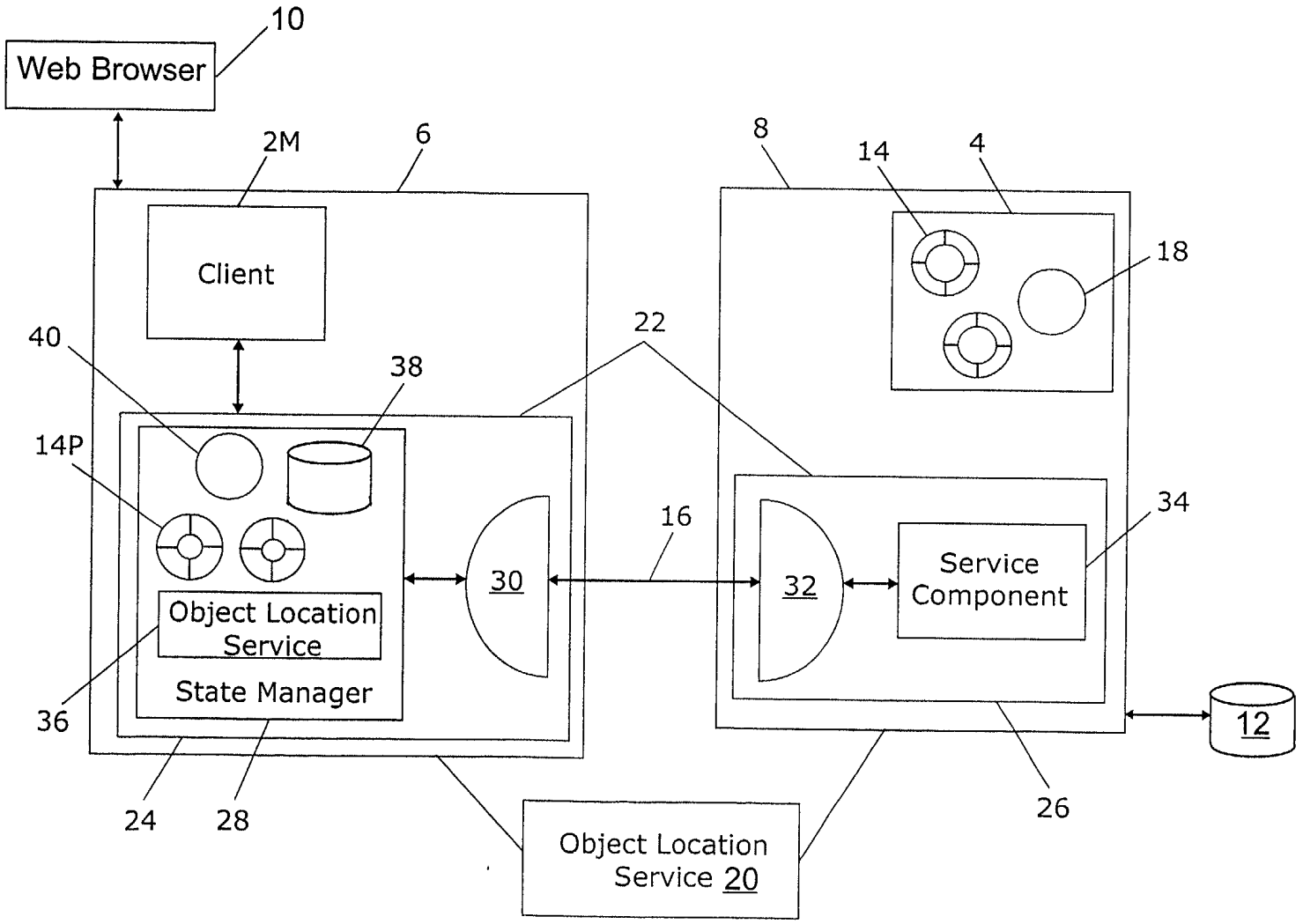

Web Browser
10
2M
6
8
14
4
18
Client
22
40
38
14P
16
34
30
32
Service Component
Object Location Service
State Manager
36
12
24
28
26
Object Location Service 20

FIGURE 2

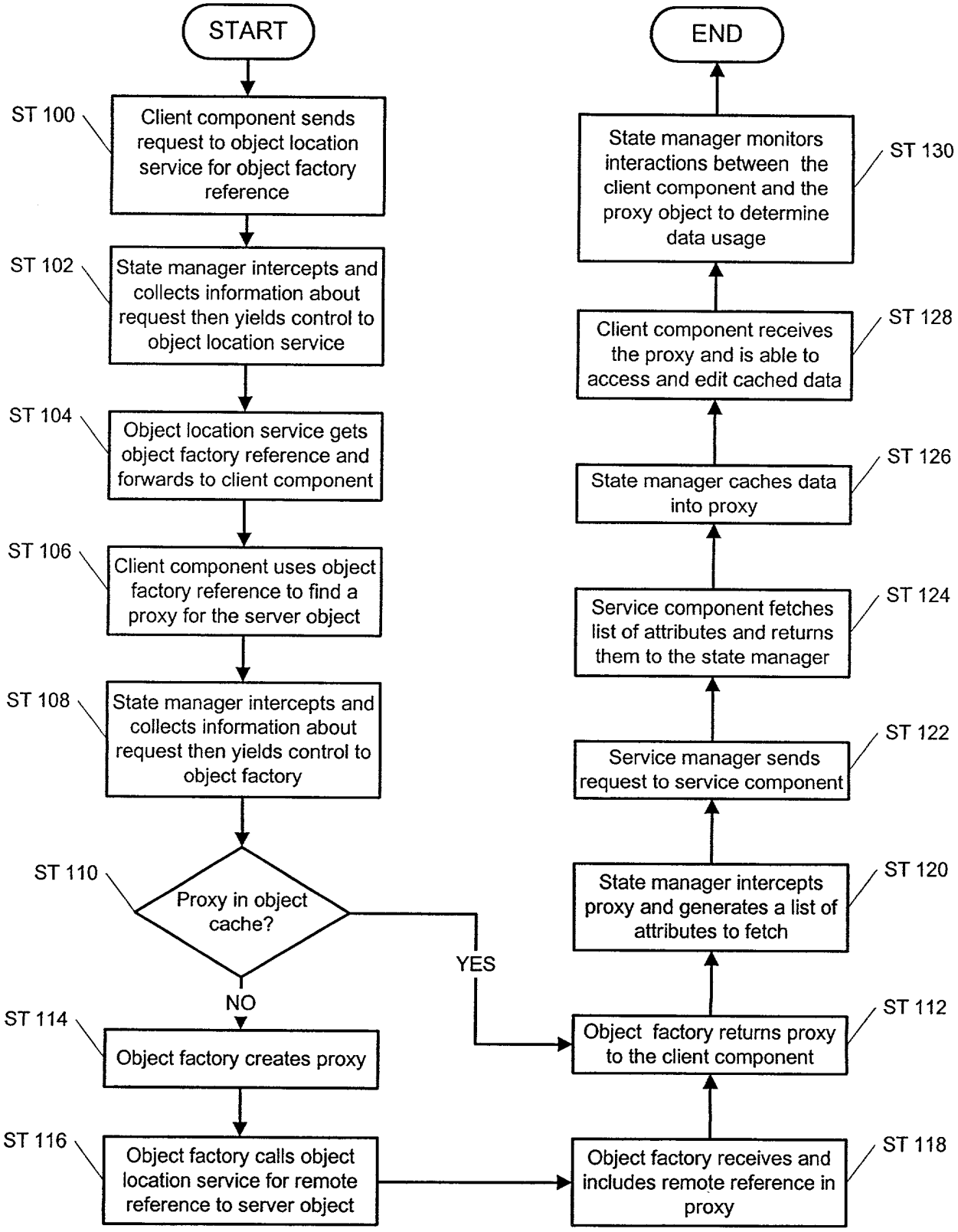

START
ST 100
Client component sends request to object location service for object factory reference
ST 102
State manager intercepts and collects information about request then yields control to object location service
ST 104
Object location service gets object factory reference and forwards to client component
ST 106
Client component uses object factory reference to find a proxy for the server object
ST 108
State manager intercepts and collects information about request then yields control to object factory
ST 110
Proxy in object cache?
YES
NO
ST 114
Object factory creates proxy
ST 116
Object factory calls object location service for remote reference to server object
ST 118
Object factory receives and includes remote reference in proxy
ST 112
Object factory returns proxy to the client component
ST 120
State manager intercepts proxy and generates a list of attributes to fetch
ST 122
Service manager sends request to service component
ST 124
Service component fetches list of attributes and returns them to the state manager
ST 126
State manager caches data into proxy
ST 128
Client component receives the proxy and is able to access and edit cached data
ST 130
State manager monitors interactions between the client component and the proxy object to determine data usage
END

FIGURE 3

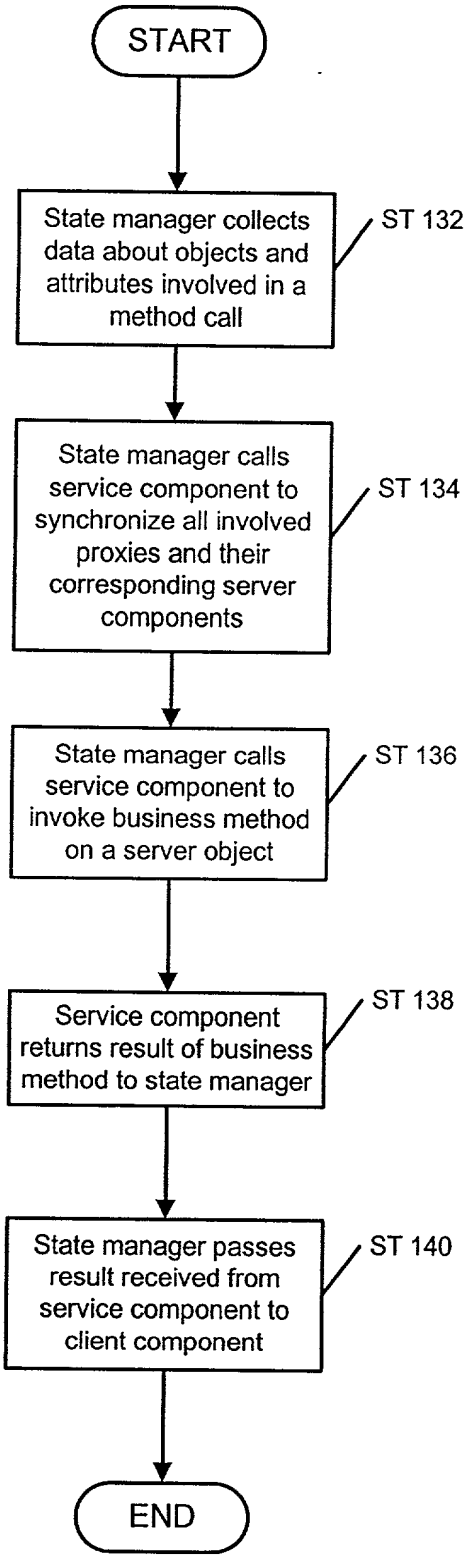

START
State manager collects data about objects and attributes involved in a method call
ST 132
State manager calls service component to synchronize all involved proxies and their corresponding server components
ST 134
State manager calls service component to invoke business method on a server object
ST 136
Service component returns result of business method to state manager
ST 138
State manager passes result received from service component to client component
ST 140
END

FIGURE 4